State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-17-83
Relating to Certification of New Motor Vehicles

AMERICAN MOTORS CORPORATION

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Orders G-45-3 and G-45-4;

IT IS ORDERED AND RESOLVED: That 1986 model-year American Motors Corporation exhaust emission control systems are certified as described below for gasoline-powered passenger cars:

| Engine Family | Displacement Cubic Inches (Liters) | | Exhaust Emission Control Systems (Special Features) |
|---|---|---|---|
| GAM1.7V5FGA1 | 105 | (1.7) | Exhaust Gas Recirculation<br>Three-Way Catalyst with Closed Loop<br>(Central Fuel Injection) |

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The following are the emission standards for this engine family:

| Hydrocarbons Grams per Mile | Carbon Monoxide Grams per Mile | Nitrogen Oxides Grams per mile |
|---|---|---|
| 0.39 | 7.0 | 0.7 |

The following are the certification emission values for this engine family:

| Hydrocarbons Grams per Mile | Carbon Monoxide Grams per Mile | Nitrogen Oxides Grams per Mile |
|---|---|---|
| 0.13 | 1.7 | 0.5 |

BE IT FURTHER RESOLVED: That the listed models were certified to the optional NOx emission standard thereby making the vehicle manufacturer subject to Section 1960.1.5 of Title 13, California Administrative Code which includes recall liability for emission control components up to 7 years or 75,000 miles if found defective by the Executive Officer.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Gasoline-Powered Motor Vehicles".

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" (Title 13, California Administrative Code, Section 2290) for the aforementioned model-year.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high altitude requirements and highway emission standards as stipulated in "California Exhaust Emission Standards and Test Procedures for 1981 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Motor Vehicle Tune-Up Label Specifications" (Title 13, California Administrative Code, Section 1965) for the aforementioned model year.

BE IT FURTHER RESOLVED: That for the listed vehicles, the manufacturer has submitted and the Executive Officer hereby approves the materials to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Administrative Code, Section 2035 et seq.) and Health and Safety Code Section 43204, provided, however, that jurisdiction is hereby reserved to modify these provisions to the extent made necessary by an EPA waiver decision, in order to assure that the listed vehicles comply with the minimum federal requirements applicable in California.

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California this 3rd day of June, 1985.

K. D. Drachand, Chief
Mobile Source Division

# 1986 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer American Motors Corporation Executive Order No. A-17-88

Engine Family GAM 1.7 V5 FG A1 Evaporative Family GV-1.7F-1S

Engine CID (Liters) 105 (1.7)

ABBREVIATIONS:

**Ignition System**

- CA - Centrifugal Advance
- EEC - Electronic Engine Control
- EI - Electronic Ignition
- ESAC - Electronic Spark Advance Control
- VA - Vacuum Advance
- VR - Vacuum Retard

**Exhaust Emissions Control System**

- AIP - Air Injection-Pump
- AIV - Air Injection-Valve
- CL - Closed Loop
- EGR - Exhaust Gas Recirculation
- EM - Engine Modification
- OC - Oxidation Catalyst System
- TOC - Trap Oxidizer Continual
- TOP - Trap Oxidizer Periodical
- TR - Thermal Reactor
- TWC - Three-Way Catalyst System

**Fuel System**

- CFI, CL, DID, DIP, EFI, MFI
- nV - nVenturi Carburetor
- VV - Variable Venturi

**Special Features**

- CCV - Combustion Chamber Valve
- CFI - Central Fuel Injection
- DID - Diesel Injection-Direct
- DIP - Diesel Injection-Prechamber
- EFI - Electronic Fuel Injection
- IC - Intercooler
- MFI - Mechanical Fuel Injection
- TC - Turbocharged

VEHICLE MODELS:

93 = Encore 3-Door
95 = Alliance 4-Door
96 = Alliance 2-Door
97 = Alliance Convertible
99 = Encore 5-Door

DRIVE SYSTEM: Front ENGINE/ Front -WHEEL DRIVE

E.O. #A -17-88

# 1986 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Passenger Cars X Light-Duty Trucks ___ Medium-Duty Vehicles ___ Gas X Diesel ___

Manufacturer American Motors Corporation Page 2.1

Engine Family GAM 1.7 V5 FG A1 Engine Code ___

ECS (Special Features) EGR + CL + TWC (CFI) CID (Liter) Type 105(1.7)I-4

| Engine Code | Vehicle Models (If Coded See Attachment)(Hp) | Trans | Equiv. Test Weight | Ignition System ESAC Part No. | Fuel System CFI Part No. | EGR Valve Part No. | Label Ident. Part No. |
|---|---|---|---|---|---|---|---|
| 5A5 | 96 | A3 | 2375 | 8933002494 | 8933002494 | 8933003184 | 8933002347 |
| | 93, 95, 99 | | 2500 | | | | |
| | 97 | | 2625 | | | | |
| 5A6 | 95, 96 | | 2375 | | | | |
| | 93, 99 | | 2500 | | | | |
| | 97 | | 2625 | | | | |
| 5M5 | 96 | M5 | 2375 | 8933002495 | 8933002495 | | |
| | 93, 95, 99 | | 2500 | | | | |
| | 97 | | 2625 | | | | |
| 5M6 | 93, 95, 96 | | 2375 | | | | |
| | 99 | | 2500 | | | | |
| | 97 | | 2625 | | | | |
| | | | | | | | |

Comments: Page and codes added under Running Change 86BV1.7-09.

(See Page 1 for abbreviations and evaporative emission family identification. Please refer to manufacturer's HP list for correct dyno test HP settings based on model and equipment. If two test weights are listed, the lower weight will be used for testing.)

Note: Add 10% to dyno test HP for air conditioning usage.

Date of Issue:

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ENGINE FAMILY: GAM 1.7V5FGA1

1986 VEHICLE WEIGHTS AND ROADLOAD HORSEPOWER

MARCH 25, 1985

1-749596

| VEHICLE | TOTAL WT. | AXLE WT. | TEST WT. | ENG | TRAN | FRONTAL AREA HORSEPOWER: BIAS TIRE A/C | BIAS TIRE NON A/C | RADIAL TIRE A/C | RADIAL TIRE NON A/C | TIRES SHOWN: Standard tire listed 1st, Optional tires also listed: SIZE/MODEL | PRESSURE FR | PRESSURE RR | ROADLOAD HP. & COASTDOWN TIMES (sec) | AC Hp | (sec) | Hp wo AC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ALLIANCE 95 4-DOOR | 2096 | 1281 | 2375 | 1.7L | M5 | | | | | P155/80R13 VIVA | 30 | 30 | | | 13.22 | 6.5 |
| | | | | | | | | | | P175/70R13 XA4 | | | | | 13.18 | 7.2 |
| | | | | | | | | | | P175/70R13 CORSA | | | | | 12.64 | 7.0 |
| | | | | | | | | | | P185/60R14 EAGLE | 28 | 28 | | | 11.02 | 7.6 |
| | | | | | | | | | | 185/60R14 MXV | 28 | 28 | | | 11.35 | 7.6 |
| | (2152) | 1348 | 2500 | 1.7L | M5 | | | | | P155/80R13 VIVA | 30 | 30 | 12.84 | 7.3 | | |
| | | | | | | | | | | P175/70R13 XA4 | | | 12.93 | 7.9 | | |
| | | | | | | | | | | P175/70R13 CORSA | | | 12.33 | 7.7 | | |
| | | | | | | | | | | P185/60R14 EAGLE | 28 | 28 | 10.87 | 8.5 | | |
| | | | | | | | | | | 185/60R14 MXV | 28 | 28 | 11.21 | 8.5 | | |
| | 2121 | 1305 | 2375 | 1.7L | A3 | | | | | P155/80R13 VIVA | 30 | 30 | | | 12.95 | 6.7 |
| | | | | | | | | | | P175/70R13 XA4 | | | | | 12.90 | 7.3 |
| | | | | | | | | | | P175/70R13 CORSA | | | | | 12.13 | 7.1 |
| | | | | | | | | | | P185/60R14 EAGLE | 28 | 28 | | | 10.56 | 7.7 |
| | | | | | | | | | | 185/60R14 MXV | 28 | 28 | | | 10.98 | 7.7 |
| | (2177) | 1365 | 2500 | 1.7L | A3 | | | | | P155/80R13 VIVA | 30 | 30 | 12.63 | 7.5 | | |
| | | | | | | | | | | P175/70R13 XA4 | | | 12.55 | 8.0 | | |
| | | | | | | | | | | P175/70R13 CORSA | | | 11.96 | 7.8 | | |
| | | | | | | | | | | P185/60R14 EAGLE | 28 | 28 | 10.33 | 8.6 | | |
| | | | | | | | | | | 185/60R14 MXV | 28 | 28 | 10.86 | 8.6 | | |
| ALLIANCE 96 2-DOOR | 2055 | 1262 | 2375 | 1.7L | M5 | | | | | P155/80R13 VIVA | 30 | 30 | 12.57 | 7.2 | 13.22 | 6.5 |
| | (2111) | 1321 | | | | | | | | P175/70R13 XA4 | | | 12.46 | 7.9 | 13.18 | 7.2 |
| | | | | | | | | | | P175/70R13 CORSA | | | 11.99 | 7.7 | 12.64 | 7.0 |
| | | | | | | | | | | P185/60R14 EAGLE | 28 | 28 | 10.45 | 8.4 | 11.02 | 7.6 |
| | | | | | | | | | | 185/60R14 MXV | 28 | 28 | 10.76 | 8.4 | 11.35 | 7.6 |
| | 2080 | 1286 | 2375 | 1.7L | A3 | | | | | P155/80R13 VIVA | 30 | 30 | 12.30 | 7.4 | 12.95 | 6.7 |
| | (2135) | 1346 | | | | | | | | P175/70R13 XA4 | | | 12.20 | 8.0 | 12.90 | 7.3 |
| | | | | | | | | | | P175/70R13 CORSA | | 28 | 11.53 | 7.8 | 12.13 | 7.1 |
| | | | | | | | | | | P185/60R14 EAGLE | 28 | 28 | 10.04 | 8.5 | 10.56 | 7.7 |
| | | | | | | | | | | 185/60R14 MXV | 28 | 28 | 10.41 | 8.5 | 10.98 | 7.7 |

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ENGINE FAMILY: GAM 1.7 V5 FGA1

1986 VEHICLE WEIGHTS AND ROADLOAD HORSEPOWER

MARCH 25, 1985

| VEHICLE | TOTAL WT. | AXLE WT. | TEST WT. | ENG | TRAN | FRONTAL AREA HORSEPOWER: BIAS TIRE A/C | BIAS TIRE NON A/C | RADIAL TIRE A/C | RADIAL TIRE NON A/C | TIRES SHOWN: Standard tire listed 1st, Optional tires also listed: SIZE/MODEL | PRESSURE FR | PRESSURE RR | ROADLOAD HP. & COASTDOWN TIMES (sec) | AC Hp | (sec) | Hp wo AC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 1-7A97 | | | | | | | | | | | | |
| ALLIANCE 97 CITIBLE | 2270 [(2326)] | 1334 | 2625 | 1.7L | M5 | | | | | P155/80R13 VIVA | 30 | 30 | 13.35 | 7.3 | 14.03 | 6.6 |
| | | | | | | | | | | P175/70R13 XA4 | | | 13.53 | 7.9 | 14.30 | 7.2 |
| | | | | | | | | | | P175/70R13 CORSA | | | 12.94 | 7.7 | 13.62 | 7.0 |
| | | | | | | | | | | P185/60R14 EAGLE | 28 | 28 | 11.24 | 8.5 | 11.84 | 7.7 |
| | | | | | | | | | | 185/60R14 MXV | 28 | 28 | 11.00 | 8.5 | 12.45 | 7.7 |
| | 2295 [(2351)] | 1359 1410 | 2625 | 1.7L | A3 | | | | | P155/80R13 VIVA | 30 | 30 | 13.12 | 7.6 | 13.81 | 6.9 |
| | | | | | | | | | | P175/70R13 XA4 | | | 13.20 | 8.0 | 13.95 | 7.3 |
| | | | | | | | | | | P175/70R13 CORSA | | | 12.52 | 7.0 | 13.13 | 7.1 |
| | | | | | | | | | | P185/60R14 EAGLE | 28 | 28 | 10.76 | 8.7 | 11.30 | 7.9 |
| | | | | | | | | | | 185/60R14 MXV | 28 | 28 | 11.30 | 8.7 | 11.92 | 7.9 |

E.O. #A-17-88 PAGE 5

ENGINE FAMILY: GAM1.7V5FGA1

1986 VEHICLE WEIGHTS AND ROADLOAD HORSEPOWER

MARCH 29, 1986

| VEHICLE | TOTAL WT. | AXLE WT. | TEST WT. | I-7EY399 ENG | I-7EY399 TRNS | FRONTAL AREA HORSEPOWER BIAS TIRE A/C | FRONTAL AREA HORSEPOWER BIAS TIRE NON A/C | FRONTAL AREA HORSEPOWER RADIAL TIRE A/C | FRONTAL AREA HORSEPOWER RADIAL TIRE NON A/C | TIRES SHOWN Standard tire listed 1st Optional tires also listed SIZE/MODEL | PRESSURE FR | PRESSURE RR | ROADLOAD HP. & CONSTANT TIMES (sec) | AC Hp | (sec) | Hp no AC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ENCORE 93 3-DOOR | 2115 | 1265 | 2375 | 1.7L | MB | | | | | P155/80R13 VIVA | 30 | 30 | | | 14.10 | 6.0 |
| | | | | | | | | | | P175/70R13 XA4 | | | | | 14.05 | 6.5 |
| | | | | | | | | | | P175/70R13 CORSA | | | | | 13.40 | 6.3 |
| | | | | | | | | | | P185/60R14 EAGLE | 28 | 28 | | | 11.57 | 7.1 |
| | | | | | | | | | | 185/60R14 MXV | 28 | 28 | | | 11.88 | 7.1 |
| | (2171) | 1325 | 2500 | 1.7L | MB | | | | | P155/80R13 VIVA | 30 | 30 | 13.83 | 6.7 | | |
| | | | | | | | | | | P175/70R13 XA4 | | | 13.78 | 7.2 | | |
| | | | | | | | | | | P175/70R13 CORSA | | | 13.19 | 6.9 | | |
| | | | | | | | | | | P185/60R14 EAGLE | 28 | 28 | 11.41 | 7.8 | | |
| | | | | | | | | | | 185/60R14 MXV | 28 | 28 | 11.67 | 7.8 | | |
| | 2140 | 1290 | 2500 | 1.7L | AS | | | | | P155/80R13 VIVA | 30 | 30 | 13.10 | 6.9 | 13.75 | 6.3 |
| | (2198) | 1349 | | | | | | | | P175/70R13 XA4 | | | 13.17 | 7.3 | 13.84 | 6.6 |
| | | | | | | | | | | P175/70R13 CORSA | | | 12.41 | 7.2 | 13.01 | 6.5 |
| | | | | | | | | | | P185/60R14 EAGLE | 28 | 28 | 10.50 | 8.0 | 11.00 | 7.3 |
| | | | | | | | | | | 185/60R14 MXV | 28 | 28 | 11.00 | 8.0 | 11.65 | 7.3 |
| ENCORE 94 3-DOOR | 2150 | 1282 | 2500 | 1.7L | MB | | | | | P155/80R13 VIVA | 30 | 30 | 13.83 | 6.7 | 14.47 | 6.1 |
| | (2206) | 1341 | | | | | | | | P175/70R13 XA4 | | | 13.78 | 7.2 | 14.49 | 6.5 |
| | | | | | | | | | | P175/70R13 CORSA | | | 13.19 | 6.9 | 13.83 | 6.3 |
| | | | | | | | | | | P185/60R14 EAGLE | 28 | 28 | 11.41 | 7.8 | 11.98 | 7.1 |
| | | | | | | | | | | 185/60R14 MXV | 28 | 28 | 11.67 | 7.8 | 12.26 | 7.1 |
| | 2178 | 1306 | 2500 | 1.7L | AS | | | | | P155/80R13 VIVA | 30 | 30 | 13.10 | 6.9 | 13.75 | 6.3 |
| | (2231) | 1366 | | | | | | | | P175/70R13 XA4 | | | 13.17 | 7.3 | 13.84 | 6.6 |
| | | | | | | | | | | P175/70R13 CORSA | | | 12.41 | 7.2 | 13.01 | 6.5 |
| | | | | | | | | | | P185/60R14 EAGLE | 28 | 28 | 10.50 | 8.0 | 11.00 | 7.3 |
| | | | | | | | | | | 185/60R14 MXV | 28 | 28 | 11.00 | 8.0 | 11.65 | 7.3 |